

MT-465019/NVD

4.9 – 6.1 GHz 17/19 dBi Triple Pol Directional Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682	
Frequency	4.9 - 6.1 GHz	
Polarization	Vertical	Dual slant $\pm 45^\circ$
Gain	4.9-5.15 GHz @ 18.0 ± 1.0 dBi 5.15-6.0 GHz @ 20.0 ± 1.0 dBi 6.0-6.1 GHz @ 17.0 ± 1.0 dBi	4.9-5.15 GHz @ 16.5 ± 1.0 dBi 5.15-6.0 GHz @ 18.0 ± 1.0 dBi 6.0-6.1 GHz @ 16.0 ± 1.0 dBi
VSWR	1.5:1 typ, 1.8:1 max	1.5:1 typ, 1.8:1 max
-3 dB Azimuth Beam Width	20° typ @ 4.9-5.875 GHz 15° typ @ 5.875-6.1 GHz	20° typ
-3 dB Elevation Beam Width	12° typ	20° typ
Azimuth Side Lobes Level	-15 dB typ @ 4.9-5.875 GHz -9 dB typ @ 5.875-6.1 GHz	-15 dB typ @ 4.9-6.0 GHz -13 dB typ @ 6.0-6.1 GHz
Elevation Side Lobes Level	-15 dB typ @ 4.9-5.875 GHz -10 dB typ @ 5.875-6.1 GHz	-15 dB typ @ 4.9-5.875 GHz -11 dB typ @ 5.875-6.1 GHz
Azimuth Cross Polarization	-20 dB typ @ 4.9-5.875 GHz -12 dB typ @ 5.875-6.1 GHz	-20 dB typ @ 4.9-6.0 GHz -15 dB typ @ 6.0-6.1 GHz
Elevation Cross Polarization	-25 dB typ	-20 dB typ @ 4.9-5.875 GHz -13 dB typ @ 5.875-6.1 GHz
Port to Port Isolation	-40 dB max @ 4.9-6.0 GHz -35 dB max @ 6.0-6.1 GHz	-35 dB max @ 4.9-5.875 GHz -30 dB max @ 5.875-6.1 GHz
F/B Ratio		-35 dB typ, -30 dB max
Input Impedance		50 ohm
Input Power		6 W max
Lightning Protection		DC Grounded

Mechanical

Dimensions	305 x 305 x 15 mm max
Weight	1.5 kg max
Connector	3 x N-type Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72 h	-55 °C	
High Temperature	IEC 68-2-2	72 h	+71 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45 °C +70 °C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M3
Shock Mechanical	IEC 60721-3-4			4M3
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	2000 h		
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival			220 Km/h
	Operation			160 Km/h
Wind Load	Front Thrust			26.8 kg
Survival	Side Thrust			1.3 kg

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